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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/621,119	07/16/2003	Arthur E. Quaid	MAKO 2 00027-3	9089	
27885	7590 06/16/2006		EXAMINER		
FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP			JUNG, WILLIAM C		
	1100 SUPERIOR AVENUE, SEVENTH FLOOR CLEVELAND, OH 44114			PAPER NUMBER	
	,	3768			
				DATE MAILED: 06/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		\mathcal{O}				
	Application No.	Applicant(s)				
Office Action Summary	10/621,119	QUAID ET AL.				
Onice Action Summary	Examiner	Art Unit				
	William Jung	3768				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MOI tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on 16	3 July 2003.					
, <u> </u>	<u>_</u>					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·				
4)⊠ Claim(s) <u>1-73</u> is/are pending in the applicati	on.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-73</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the corr	ection is required if the drawing	g(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bure	• • • • • • • • • • • • • • • • • • • •	•				
* See the attached detailed Office action for a l	ist of the certified copies not	received.				
Attachment(s)		·				
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152)						
Paper No(s)/Mail Date 16072003, 11102005.	6) Other:					

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-73 are rejected under 35 U.S.C. 102(e) as being anticipated by *Cosman* (US 6,4058,072 B1).

Cosman anticipates all claimed features in claims 1-73.

Claims 1 and 32: Cosman discloses a method an apparatus for computed-assisted (i.e. computer guided) surgery system during surgical procedure comprising a receive information via receiver on a n object of interest, tracking the position of the tool obtained from the received information with reference coordinates to provide the location of the surgical tools in relationship to the reference coordinate and the object of interest and providing an indication of scalar distance to a user of said tool.

Claims 2-21 and 33-52: Cosman discloses further that the method and system above includes visual indicator providing visual information that includes three dimensional spatial relationship amongst the patient (object of interest), surgical tool, and the imaging device where the information are numerically and graphically display on display unit 39B. Since, the method and system in Cosman's disclosure is based on the feedback system where the position of the surgical tool is continuously tracked during the surgical procedure the acceptable range and the

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haptic shape defining a desired shape for an anatomy of a patient is based on the conditions of the object of interest.

Claims 22-31 and 53-64: The limitations in claims 15-31 and 46-64 include the feedback indication method and system that includes limitations such as audio warning or indicator. The audio indicator providing a feedback to warn the operator on the range of the surgical tools location is functionally equivalent to visual indicator to provide the same feedback. Thus, the audio indicator is merely a design choice to provide the surgical tool's positional feedback.

Claims 66-73: Cosman utilizes CT and optical imaging system along with reference markers to track the position of the surgical tools as described above. More specifically, Cosman illustrates in figure 1 where the positional tracking information are processed with computer to provide the information visual on display 39. Therefore, the Cosman's system includes computer and computer readable medium storing instructions which when executed by a computer cause the computer to execute the steps disclosed above.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Jung, Ph.D. whose telephone number is 571-272-4739. The examiner can normally be reached on Mon-Fri 8:30 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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WO

June 11, 2006

BRIAN L. CASLER
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